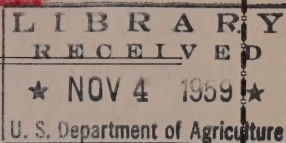


62 Tr

SEEDS

for the
NURSERYMAN
AND
FORESTER

1959 - 1960



F. W. SCHUMACHER

HORTICULTURIST

SANDWICH, MASS.

Telephone SAGAMORE 659

TERMS

Deliveries are subject to yield of crops and safe arrival of consignments.

It is not possible to have all items listed available at all times. A number of perishable seeds cannot be stored successfully and must be ordered in season. All seeds are offered subject to crop failures or short supplies.

Seeds are sold without warranty, expressed or implied, as to description and productiveness. Goods should be carefully inspected upon arrival and claims for condition made at once. We cannot consider claims after seeds have been stored or planted.

All shipments travel at buyer's risk and claims for damages in transit must be taken up with carriers.

CAUTION—While it is true that plants grown from seed of horticultural varieties often yield superior plant material in comparison to that grown from nondescript seed, we wish to emphasize that seeds of such varieties or hybrids, with few exceptions, cannot be expected to come true to name. They are offered here for the convenience of competent plantmen, for research and breeding work only.

CUSTOMERS OTHER THAN PROFESSIONALS—please note that their orders for pound lots will be handled in line with all others. Orders for small quantities of assorted items must wait their turn to be filled after arrival of respective items from sources. We suggest that such orders be placed with us prior to March 1st. During the busy spring and fall shipping seasons orders for small amounts of seeds cannot be filled promptly. Please confine correspondence concerning small orders to the most necessary and attach a stamped return envelope if your inquiry does not concern an order. The right is reserved to return orders received in excess of our facilities.

PRICES—subject to change without notice, are f.o.b. Sandwich, Mass.

PAYMENT—for customers of approved credit upon receipt of invoice. For cash remittance we will pack, and forward free of charge, parcel post shipments within the states. Customers may, at their option, deduct 3% for cash discount from seed total of order and add approximate amount of postage and packing if order amounts to \$10.00 and over. For orders or shipments less than \$5.00 in value please remit 50c extra for handling.

ORDERING—We request that written orders be a separate part of any correspondence and clearly show amount and price of each item listed. Quantities smaller than listed cannot be supplied.

ABBREVIATION—N. E. stands for New England seed, a sign of hardiness; d.b. for dried berries; d.h. for dried hips; asterisk (*) denotes new or insufficiently known plants of merit.

OR—The designation OR stands for certificates of origin obtained from individual sources and held in our files.

WE ARE IN THE MARKET FOR TREE AND SHRUB SEEDS OF ALL KINDS.

	oz.	¼ lb.	lb.
ABIES alba (pectinata) .....	.90	2.50	
amabilis	2.00	5.75	
balsamea, Lake States	1.75	5.00	
cephalonica	1.25	3.50	
cilicica	1.35	3.75	
concolor, Colorado	1.40	4.00	
firma	1.25	3.50	
fraseri	4.50	12.00	
grandis, Interior (hardy strain) Montana, Idaho	2.20	6.00	
grandis, Pacific Coast strain, Oregon, Washington ..	1.85	5.50	
homolepis	1.50	4.25	
lasiocarpa	2.80	8.00	
magnifica	2.00	5.75	
nordmanniana	1.25	3.50	
pinsapo	1.10	3.00	
pinsapo glauca	1.25	3.50	
procera (nobilis)	2.20	6.00	
veitchi	1.65	4.50	
ACACIA armata	2.50		
baileyana .....	.50	1.35	3.75
cultriformis	1.00	2.70	7.50
cyanophylla .....	.50	.90	2.50
cyclops .....	.60	1.65	4.50
decurrens .....	.50	1.10	3.00
decurrens dealbata .....	.50	1.25	3.50
decurrens dealbata, fast growing cultural selection ..	.65	1.75	5.00
decurrens mollis (mollissima) .....	.50	1.20	3.25
farnesiana .....	.50	1.10	3.00
horrida .....	.50	1.25	3.50
longifolia .....	.50	1.40	4.00
melanoxylon .....	.50	1.20	3.25
podalyriaefolia	1.75	4.50	12.00
pycnantha .....	.50	1.30	3.75
retinodes floribunda .....	.50	1.40	4.00
saligna .....	.45	.70	2.00
ACER campestre .....		.45	1.00
ginnala		1.10	3.00
macrophyllum .....		.90	2.50
negundo .....		.50	1.00
palmatum, small seeded		1.65	4.50
palmatum atropurpureum	1.00	2.75	7.50
palmatum atropurpureum dissectum	1.75	4.50	12.00
platanoides .....		.50	1.25
pseudoplatanus .....		.45	1.00
pseudoplatanus purpurascens .....		.45	1.25
rubrum, northern		2.00	
saccharum		1.00	2.75
AILANTHUS altissima (glandulosa)			1.00
AKEBIA quinata		1.25	3.50
ALBIZZIA julibrissin .....		.50	1.00
julibrissin rosea		1.20	3.25
lophanta		1.00	2.75
odoratissima .....	.85	2.50	

	oz.	¼ lb.	lb.
ALNUS glutinosa			
incana .....		.70	2.00
AMELANCHIER alnifolia, clean	1.40	4.00	11.00
alnifolia, d.b.		1.75	4.75
AMPELOPSIS (see also Parthenocissus) aconitifolia, N. E., d.b.	1.00		
AMORPHA canescens		1.25	3.50
fruticosa .....		.50	1.25
ANDROMEDA glaucophylla 1.00 pkt.			
ARALIA spinosa, d.b.		1.10	3.00
ARBUTUS menziesi, d.b.		1.20	3.25
ARCTOSTAPHYLOS bicolor, d.b.		2.20	6.00
drupacea, d.b.		1.85	5.50
glauc, clean .....	.75	2.20	6.00
glandulosa, d.b.		2.75	7.50
manzanita, d.b.		1.00	3.00
pungens, d.b.		1.85	5.50
tomentosa, d.b.		1.75	5.00
uva ursi, clean	1.35	3.20	8.50
ARECASTRUM romanzoffianum (Cocus plumosa) 250 seeds 1.50 — 1,000 seeds 5.00			
ARISTOLOCHIA tomentosa		1.40	4.00
ARONIA arbutifolia, d.b. ....		.90	2.50
arbutifolia brilliantissima, d.b.		1.10	3.00
melanocarpa, clean	2.50	7.00	
melanocarpa, d.b. ....		.65	1.75
ASIMINA triloba .....		.90	2.50
AZALEA albrechtii 1.00 1/32 oz.			
arborescens, N. E. 1.00 1/16 oz., 3.00 ¼ oz.			
atlantica	1.00 1/32 oz.		
austrina	1.00 1/32 oz., 3.00 ⅛ oz.		
calendulacea	1.00 1/16 oz., 1.75 ¼ oz.		
indica (macrantha)	1.00 1/16 oz.		
japonica (hardy mollis) from specialist's collection	1.25 1/16 oz., 3.00 ¼ oz.		
japonica, yellow flowered, domestic seed	1.00 1/32 oz., 3.00 ⅛ oz.		
kaempferi (see under obtusa)			
maxwelli, N. E. 1.00 pkt.			
mollis (true mollis) 1.25 1/16 oz., 3.00 ¼ oz.			
mucronata (ledifolia alba) white, N. E. .. 1.00 pkt.			
mucronata amethystina	1.00 pkt.		
mucronulata, handpollinated domestic seed, 1.25 pkt., 2.00 1/16 oz., 6.00 ¼ oz.			
nudiflora .....	.75 1/16 oz., 1.50 ¼ oz.		
obtusa kaempferi, home grown, N. E. 1.00 1/16 oz., 3.50 ¼ oz.			
obtusa kaempferi, tall red flowered selections	1.00 pkt., 1.50 1/32 oz.		
obtusa kaempferi, low spreading type, red flowers	1.00 pkt., 1.50 1/32 oz.		

	oz.	¼ lb.	lb.
AZALEA (continued)			
pennsylvanica	1.50	pkt.	
pontica	1.00 1/16 oz.,	1.75 ¼ oz.	
*poukhanensis, N. E.	1.25 1/32 oz.,	3.00 ⅛ oz.	
prunifolia	1.00 pkt.,	1.50 1/32 oz.	
rosea	1.00 1/16 oz.,	3.00 ¼ oz.	
schlippenbachii, Korean strain, N. E.	1.00 1/16 oz.,	2.00 ¼ oz.	
serrulata	1.00 1/32 oz.		
speciosa	1.00 1/32 oz.		
vaseyi	1.00 1/16 oz.,	2.75 ¼ oz.	
viscosa	1.00 1/16 oz.,	2.25 ¼ oz.	
(See listing of Hybrid varieties on pages 22 and 23)			
BAUHINIA purpurea		1.75	5.00
purpurea alba		2.20	6.00
BERBERIS juliana nana, d.b.	1.00 ¼ oz.	3.50	
thunbergii clean		1.75	4.75
thunbergii atropurpurea, clean	2.00	5.50	15.00
BETULA albo-sinensis .....	.75 ¼ oz.		
lenta, clean	1.00	2.75	7.50
lutea, clean	1.25	3.50	10.00
mandshurica japonica		1.40	4.00
papyrifera minor, N. E.	1.50		
pendula (alba) .....		.50	1.25
pendula (alba), clean .....		.90	2.50
pendula (alba), seed from northern limit, clean ...		1.10	3.00
populifolia, clean .....	.85	2.35	6.50
BROUSSONETIA papyrifera	1.00	2.75	7.50
BUDDLEIA davidi (variabilis)		1.50	4.25
davidi, from new garden forms	2.00		
davidi, white	2.00		
BUTIA capitata (Cocos australis)		1.20	3.25
BUXUS microphylla koreana	1.00 ¼ oz.	3.00	
sempervirens		1.10	3.00
CALLICARPA dichotoma (purpurea)		3.50	10.00
japonica		3.35	9.00
CALLISTEMON viminalis	1.50 ¼ oz.	5.00	
CALLUNA vulgaris, clean	1.00 ¼ oz.	2.00	
CALYCANTHUS floridus		1.00	2.75
occidentalis		2.35	6.50
CAMELLIA japonica, from garden specimens,			
Japanese collection .....		.90	2.50
japonica, from garden specimens, European			
collection .....		.90	2.50
sasanqua		1.00	2.75
CAMPSIS (Bignonia) grandiflora		1.25	3.50
radicans		1.10	3.00
CARAGANA arborescens .....		.70	2.00
boisi .....	.75 ¼ oz.	2.25	
CARPINUS betulus, clean .....		.50	1.25
caroliniana, clean		1.50	4.25

	oz.	¼ lb.	lb.
CARYA illinoensis (Pecan) .....			.90
laciniosa, large nuts per bushel (50 lbs.)	21.00		.65
ovata per bushel (50 lbs.)	20.00		
CARYOPTERIS clandonensis , clean	1.00 ⅛ oz.		
CASSIA alata	2.50		
artemisioides	2.75		
bicansularis	3.00		
floribunda	2.75		
tomentosa	2.10		
CASUARINA equisetifolia	1.30	3.75	10.50
CATALPA bignonioides .....		.50	1.20
ovata .....		.75	2.00
speciosa		1.20	3.25
CEANOTHUS americanus .....	.80	2.20	6.00
arboreus .....	.75 ¼ oz.		
arboreus hybrids .....	.75 ¼ oz.		
integerrimus .....	.75 ¼ oz.		
leucodermis (divaricatus) var.			
eglandulosus .....	.75 ¼ oz.		
megacarpus .....	.75 ¼ oz.		
palmeri .....	.75 ¼ oz.		
purpureus .....	.75 ¼ oz.		
spinousus .....	.75 ¼ oz.		
thyrsiflorus .....	.75 ¼ oz.		
tomentosus olivaceus .....	.75 ¼ oz.		
velutinus .....	.75 ¼ oz.		
verrucosus .....	.75 ¼ oz.		
CEDRUS atlantica		1.40	4.00
atlantica argentea		1.50	4.25
atlantica glauca		1.70	4.75
deodara		1.30	3.75
libani		1.50	4.25
CELASTRUS orbiculatus , clean		1.20	3.25
scandens, clean		2.20	6.00
CELTIS mississippiensis (laevigata), d.b. ....		.90	2.50
occidentalis, clean		1.40	4.00
occidentalis, d.b. ....		.70	2.00
CEPHALANTHUS occidentalis , clean .....		.75	2.10
CEPHALOTAXUS drupacea .....		.65	1.75
fortuni .....		.65	1.85
CERATONIA siliqua .....		.45	1.25
CERCIDIPHYLLUM japonicum	1.50	2.80	8.00
CERCIS canadensis , Northern seed		1.10	3.00
canadensis, Southern seed		1.00	2.75
chinensis		1.65	4.50
occidentalis		1.75	5.00
siliquastrum .....		.50	1.20
siliquastrum alba .....		.90	2.50
CHAENOMELES japonica (maulei), dwarf type		1.50	4.25
lagenaria (Cydonia jap.) bush type, domestic			
seed, largely from red plants, N. E.		1.70	4.75

	oz.	¼ lb.	lb.
CHAMAECYPARIS lawsoniana .....		.90	2.50
lawsoniana allumi, blue, columnar shaped form		1.40	4.00
lawsoniana argentea		1.30	3.75
lawsoniana aurea		1.25	3.50
lawsoniana pendula glauca		1.30	3.75
lawsoniana pyramidalis		1.10	3.00
lawsoniana Triumph de Boskoop, choice blue form		1.30	3.75
obtusa		1.20	3.25
pisifera		1.40	4.00
pisifera filifera		1.65	4.50
thyoides glauca	1.00 ¼ oz.	2.50	
CHAMAEROPS humilis .....		.50	1.25
CHILOPSIS linearis		2.70	7.50
CHIMONANTHUS (Meratia) praecox		1.20	3.25
CHIONANTHUS virginicus, clean		1.65	4.50
CINNAMOMUM camphora .....		.65	1.80
glanduliferum		1.00	2.75
CLADRASTIS lutea		1.75	5.00
platycarpa		1.50	4.25
CLEMATIS paniculata, imported		1.65	4.50
patens, N. E.	1.50		
viticella .....		.90	2.50
CLERODENDRON trichotomum		1.30	3.75
CLETHRA acuminata, clean	2.00 ¼ oz.		
alnifolia, N. E., clean	1.50 ¼ oz.	4.00	
fargesii, clean	1.00 pkt.		
COCCULUS carolinus .....		.70	2.00
COLUTEA arborescens .....		.65	1.75
CORDYLINE (Dracaena) indivisa		1.20	3.25
CORNUS alba		1.20	3.25
amomum		1.25	3.50
capitata .....		.80	2.25
florida, climatic Zone 6, clean		1.30	3.75
florida, N. E., Zone 5, clean		1.40	4.00
florida, from Redflowering Dogwood, d.b.		1.40	4.00
kousa, clean		1.40	4.00
kousa chinensis, N. E., clean	1.50	4.25	
mas, clean .....		.70	1.85
nuttalli, d.b.		1.30	3.75
officinalis, clean		1.30	3.75
racemosa (paniculata), clean		1.10	3.00
racemosa (paniculata) d.b. ....		.60	1.50
sanguinea, clean .....		.50	1.25
stolonifera, d.b. ....		.70	2.00
CORONILLA emerus .....	.60	1.50	
CORYLOPSIS sinensis, N. E.	1.00 ¼ oz.	2.50	
CORYLUS americana .....		.90	2.50
avellana .....		.50	1.25
COTINUS coggygia (Rhus cotinus) .....		.90	2.50
COTONEASTER acutifolia	1.25	3.35	9.00
adpressa praecox, d.b.	1.40	4.00	11.00

	oz.	¼ lb.	lb.
COTONEASTER (continued)			
apiculata, d.b.	2.00		
bullata floribunda, d.b.	1.00	2.50	
*dielsiana major, clean		1.75	5.00
divaricata, clean		1.70	4.75
foveolata, clean, N. E. better habit and foliage, more disease resistant than either Cot. acutifolia or lucida		2.20	6.00
francheti, clean		1.80	5.25
horizontalis, clean		1.50	4.25
horizontalis perpusilla, d.b.	1.25		
horizontalis prostrata, choice subspecies of procum- bent habit, good for rock gardens, d.b.	1.50	4.50	
microphylla thymifolia	1.50		
*multiflora, clean	1.00	2.70	7.50
*multiflora calocarpa, d.b.		2.00	5.75
pannosa, clean		1.65	4.50
racemiflora nummularia (Meyeri), d.b.	1.25		
racemiflora songarica, d.b.	1.00	2.50	
racemiflora veitchi, clean		2.20	6.00
rosea, d.b.	1.50		
salicifolia, clean		2.20	6.00
simonsi, clean		1.75	5.00
zabeli, d.b.		2.00	
CRATAEGUS crus-galli, clean ....		.90	2.50
intricata (coccinea)		1.20	3.25
mollis, clean		1.10	3.00
monogyna (oxyacantha mon.) ....		.50	1.25
oxyacantha ....		.60	1.50
punctata, clean		1.40	4.00
CRYPTOMERIA japonica, European seed		1.25	3.50
japonica, Oriental seed		1.40	2.75
japonica elegans ....	.90	2.35	6.50
japonica lobbi		1.40	4.00
CUNNINGHAMIA lanceolata		1.50	4.25
CUPRESSUS arizonica (glabra or bonita) domestic seed from pyramid specimens		1.75	4.75
forbesi	2.75		
funnebris		1.10	3.00
goiveniana		1.10	3.00
lusitanica (glauca) ....		.90	2.50
lusitanica benthami		1.00	2.75
macrocarpa		1.65	4.50
sempervirens ....		.60	1.50
sempervirens horizontalis ....		.60	1.40
sempervirens stricta ....		.50	1.25
stephensoni (Cuyamaca Cypress), choice new California mountain Cypress from high elevation	1.25 ¼ oz.	3.50	
torulosa		1.00	2.75
torulosa majestica		1.20	3.25
CYCAS revoluta 100 seeds	4.00		
CYDONIA (see also Chaenomeles) oblonga (vulgaris)		1.85	5.50

	oz.	¼ lb.	lb.
CYTISUS multiflorus	1.00	2.50	
multiflorus, White Gem	1.50		
nigricans .....	.85	2.35	6.50
purpureus	1.00	2.50	
scoparius .....		.60	1.50
scoparius andreanus, yellow with crimson wing	1.50	4.25	
scoparius andreanus hybrids (dallimorei), vari- colored flowers in pastel shades of yellow, rose and white	1.00 ¼ oz.	2.85	
sessilifolius		2.35	6.50
DAPHNE mezereum		1.25	3.50
DEUTZIA scabra (crenata)		1.50	4.25
DIOSYROS kaki .....		.65	1.75
lotus .....		.50	1.25
virginiana .....		.50	1.25
virginiana, northern .....		.60	1.50
virginiana, from trees in cultivation .....		.70	2.00
ELEAGNUS, angustifolia , clean .....		.50	1.25
commutata (argentea), clean .....		.80	2.25
umbellata, clean		1.40	4.00
ELSHOLTZIA stauntoni	1.00 ⅛ oz.		
ENKIANTHUS campanulatus , N. E.	1.25 ¼ oz.	3.75	
cernuus rubens, N. E.	1.00 1/32 oz.		
ENTEROLOBIUM cyclocarpum	1,000 seeds	5.00	
ERICA carnea , clean	1.00 ¼ oz.	2.50	
ERYTHRINA corallodendrum 250 seeds 2.50—1,000 seeds 6.50 crista-galli 250 seeds 2.25—1,000 seeds 6.00			
EUCALYPTUS botryoides		2.50	7.00
camaldulensis (rostrata)		1.30	3.75
globulus, clean		2.35	6.50
EUONYMUS alatus , clean		1.25	3.50
atropurpureus, d.b.		1.10	3.00
europaeus, clean .....		.70	2.00
fortunei (radicans) clean		1.30	3.75
japonicus, clean		1.10	3.00
*sachalinensis (planipes), N. E., clean	1.00	2.50	
yedoensis, d.b. N. E.		2.00	
EXOCHORDA racemosa (grandiflora)		1.40	4.00
FAGUS sylvatica			1.50
FATSIA japonica	1,000 seeds	2.50	
FIRMIANA simplex .....		.80	2.25
FRANKLINIA alata 100 seeds 1.50, 1,000 seeds 9.00			
FRAXINUS americana , true type			1.65
excelsior			1.00
mandshurica		1.10	3.00
ornus			1.00
pennsylvanica lanceolata			1.00
FREMENTIA californica	1.25 ¼ oz.	3.50	
mexicana	1.25 ¼ oz.	3.00	

	oz.	¼ lb.	lb.
GENISTA aethnensis .....	.50	1.25	
canariensis	1.00	2.50	
fragrans	1.10	3.00	
germanica	1.00		
monosperma .....		.90	2.50
tinctoria		1.65	4.50
GINKGO biloba .....		.70	2.00
GLEDITSIA japonica		1.25	3.50
sinensis		1.00	2.75
triacanthos .....		.50	1.10
triacanthos inermis .....		.60	1.50
GREVILLEA robusta	2.00	6.00	20.00
GYMNOCLADUS dioicus			1.00
HALESIA carolina (tetraptera) .....		.90	2.50
diptera		1.10	3.00
monticola .....		.90	2.50
HAMAMELIS japonica		1.65	4.50
mollis, N. E.	2.00		
vernalis	1.50	4.25	
vernalis tomentella	2.00	5.75	
virginiana	1.00	2.75	7.50
HIBISCUS syriacus .....		.60	1.50
syriacus, white flowered .....		.65	1.75
HIPPOPHAE rhamnoides .....		.80	2.25
HOVENIA dulcis		1.20	3.25
HYPERICUM frondosum (aureum)	1.00	⅓ oz.	
kalmianum	1.00	¼ oz.	3.00
ILEX aquifolium, clean		1.10	3.00
aquifolium, from garden varieties		1.30	3.75
aquifolium, from domestic orchards, clean		1.40	4.00
*cornuta, domestic, cleaned and floated		2.20	6.00
crenata convexa (bullata) N. E., d.b.	1.00		
glabra, d.b. ....		.70	2.00
opaca, clean		1.70	4.75
opaca, clean, northern sources, Zone 6		2.00	5.75
pedunculosa, clean		1.80	5.25
serrata (sieboldi), clean		1.85	5.50
verticillata, clean, N. E.		2.80	8.00
INDIGOFERA dosua	1.25		
JUBAEA spectabilis	250 seeds	2.50	
	1,000 seeds	8.00	
JUGLANS cinerea, N. E. per bushel (28 lbs.)		7.50	
nigra		per bushel (40 lbs.)	11.00
sieboldiana .....		.50	1.25
sieboldiana cordiformis .....		.50	1.25
JUNIPERUS californica, clean		3.50	10.00
chinensis, clean		1.30	3.75
communis depressa, clean		2.80	8.00
communis, upright columnar type, clean		2.60	7.00
procumbens, clean		2.35	6.50
scopulorum, clean, northern plains		1.65	4.00
scopulorum, Colorado Rockies		1.70	4.75

		oz.	¼ lb.	lb.
JUNIPERUS (continued)				
virginiana, Northern form, from plants in cultivation			1.50	4.25
virginiana, Platte River type, clean			1.70	4.75
virginiana glauca, clean			1.75	5.00
KALMIA latifolia , New England, from garden specimens	1.00 ¼ oz.	2.50		
latifolia, from Red flowered selections	1.25 pkt., 2.00 1/32 oz.			
latifolia fuscata, brown-eyed Mountain Laurel, a form distinguished by its flower variation and compact habit.	1.25 pkt., 2.00 1/32 oz.			
KERRIA japonica			1.50	4.25
KOELREUTERIA paniculata .....			.65	1.75
KOLKOWITZIA amabilis , clean, viable seed by cross pollination in group plantings, N. E.	2.00	5.50	15.00	
LABURNUM alpinum			1.00	2.85
anagyroides (vulgare)			1.00	2.85
LAGERSTROEMIA indica , clean			1.65	4.50
LARIX decidua (europaea) Eastern Alps, elev. 3,000 - 4,200 ft.		2.50	7.00	
decidua, sudetica type, foothills of Eastern Alps, 1,200 - 2,100 ft. OR.	2.00	5.60	16.00	
decidua, large seeded franco-swiss strain from Western High Alps, 6,000 ft., of late starting and early terminating growth, cold and wind resistant, straight, tall, rapid grower, a good timber tree, a fine ornamental. OR.		2.35	7.75	
leptolepis		1.75	5.00	
LAURUS nobilis , d.b.				1.00
LESPEDEZA bicolor , clean, domestic seed .....		.70	2.00	
thunbergi (formosa)		1.20	3.25	
LEUCOTHOE catesbaei	1.25 ¼ oz.	3.00		
LIBOCEDRUS decurrens .....		.90	2.50	
LIGUSTRUM amurense "North Privet", d.b. ....		.80	2.25	
japonicum, d.b. ....		.65	1.75	
lucidum, d.b.		1.00	2.75	
obtusifolium (ibota of trade), d.b. ....		.90	2.50	
sinense ("South" Privet), d.b. ....		.50	1.10	
LIQUIDAMBAR styraciflua	1.00	2.35	6.50	
LIRIODENDRON tulipifera .....		.65	1.75	
LONICERA japonica , clean		2.20	6.00	
korolkowi zabeli, fine red flowered form, d.b.	1.50			
maacki podocarpa, d.b. N. E.	1.00	3.00		
morrowi d.b. N. E.		2.20	6.00	
morrowi, yellow fruited, d.b.		2.00	5.50	
ruprechtiana, d.b., N. E.		2.00	6.00	
tatarica, clean		1.10	3.00	
tatarica wheeleri (red), d.b., N. E.	1.00	2.00		
xylostium, clean		1.80	5.25	

	oz.	¼ lb.	lb.
MAAKIA amurensis		1.50	4.00
MACLURA pomifera .....		.65	1.75
MAGNOLIA denudata (conspicua), d.b.		1.40	4.00
grandiflora, clean		1.00	2.75
kobus, domestic seed		2.20	6.00
liliflora, d.b.		1.35	3.75
soulangeana, d.b.		1.40	4.00
MAHONIA aquifolium, clean		2.40	6.50
MALUS baccata, clean	2.00	5.60	16.00
baccata, dried pomes		1.00	2.75
baccata mandshurica, dried pomes		1.10	3.00
baccata manshurica, clean	3.00		
floribunda, clean	2.00	5.00	14.00
loensis, clean	2.00	5.50	
*sargentii, dried pomes, N. E. Freeblooming, dwarf ornamental Crab, true from seed		1.75	5.00
sieboldi, clean	1.25	3.10	8.50
sieboldi arborescens, clean, N. E. tree of moderate size, faster growing than sieboldi, handsome in flower and with prominent display of fruit	2.25	6.50	18.00
sikkimensis, clean	1.50 ¼ oz.	4.25	
theifera (hupehensis), clean, handsome small tree, very free blooming, true from seed	2.25	6.45	18.00
toringoides, dried pomes		2.00	
zumi calocarpa, dried pomes .....		.90	2.50
MELALEUCA leucadendron	1.25	3.25	
MELIA azedarach .....		.70	2.00
MESPILUS germanica, clean .....		.70	2.00
MORUS alba, clean .....		.90	2.50
alba tatarica, clean		2.00	5.75
new midwestern species, tentatively named americana	1.00	2.50	
nigra, clean		1.10	3.00
MYRICA pennsylvanica (carolinensis) N. E. ....		.90	2.50
MYRTUS communis, clean		2.20	6.00
NANDINA domestica, clean		1.40	4.00
NYSSA sylvatica, clean		1.35	3.75
OLEA europaea, seed from Orchard varieties .....		.60	1.50
europaea, from wild trees .....		.90	2.50
OSMANTHUS ilicifolius (aquifolium), domestic seed		2.20	6.00
OSTRYA carpinifolia, clean		1.35	3.75
virginiana, clean		2.20	6.00
OXYDENDRUM arboreum, clean .....	.75 ¼ oz.	1.25	
PAEONIA suffruticosa (arborea or moutan), from choice domestic collection	1.40	4.00	11.00
PARKINSONIA aculeata		1.25	3.25
PARTHENOCISSUS (Ampelopsis) quinquefolia, clean .....		.65	1.75
tricuspidata (veitchi), clean .....		.80	2.25
PASSIFLORA coerulea	1.30	3.50	10.00
incarnata	1.75	4.50	12.00
PAULOWNIA tomentosa .....		.65	1.75

	oz.	¼ lb.	lb.
PHASEOLUS caracalla			
100 seeds 1.00; 1,000 seeds 6.00			
PHELLODENDRON amurense , clean	1.40	4.00	
PHILADELPHUS coronarius , clean	1.35	3.75	
PHOENIX canariensis .....	.50	1.20	
dactylifera .....	.90	2.50	
PHOTINIA villosa , clean	1.65	4.50	
PHYSOCARPUS opulifolius (Spiraea opul.), Ninebark	2.20	6.00	
PICEA abies , Boehmerwald, fast growing hill type, 1,600 - 2,400 ft., the best Norway Spruce timber stands, the tallest and largest trees are found in Boehmerwald region of Central Europe. OR.	1.80	5.25	
abies, Southeastern foothills of Alps Mts. Central Europe, a rain shadow area with dry, warm summers 1,500 - 2,400 ft. (from lower levels available on request.) OR.	1.75	5.00	
abies, seed from Central Mountains of Germany, Harz and adjacent mts., 1,200-1,800 ft. strain preferred by growers of stock for landscaping. OR.	1.70	4.75	
abies, from alpine origins, Central Alps Mt., Europe, 3,000-4,500 ft., slow growing, recom- mended for high elevations and container grown stock. OR.	1.85	5.50	
abies, Central European origins	1.25	3.50	
abies, Northwestern Europe, Mts. of France, fast growing strain, recommended for seedling growers. OR.	1.75	5.00	
abies, Northwestern Europe, Ardennes Forest, Belgium, elev. 1,200-1,500 ft., excellent strain for many purposes. OR.	1.65	4.50	
abies, Lowland strain, Denmark and South Sweden, near sea-level, the hardiest and most wind- burn resistant strain of the Central European race of Norway Spruce (not the slow growing arctic type), the best strain for the Northern states and Canada. OR.	1.85	5.50	
abies, subarctic type, from Central Sweden or Fin- land. Well suited, because of its moderate rate of growth, for landscaping and container grown Christmas trees, also for planting under adverse northern conditions. OR.	1.80	5.25	
abies, domestic Lake States. OR. ....	.80	2.20	6.00
abies, seed from elite stands recognized by res- pective governments, can be secured from various European sources on request.			
engelmanni	1.25	3.50	10.00
glauca (canadensis) from domestic sources	1.75	4.60	12.50
glauca (canadensis) from planted stands near sea- level. Northern Europe. OR.		1.25	3.50
glauca albertiana	1.75	4.60	12.50

PICEA (Continued)

	oz.	¼ lb.	lb.
<i>glauca densata</i> (Black Hills)	2.00	5.50	15.00
<i>mariana</i>	3.50	9.00	24.00
<i>omorika</i>	6.00	18.00	
<i>orientalis</i>	2.00	5.00	
<i>pungens</i>	1.35	3.75	10.50
<i>pungens glauca</i>	1.50	4.25	11.50
<i>rubens</i>	2.00	5.60	16.00
<i>sitchensis</i> , Oregon, Washington	2.00	5.00	14.00
<i>sitchensis</i> , from planted stands, Northern Europe ..		3.35	9.00
PIERIS floribunda , N. E. 1.50 ¼ oz.	4.50		
<i>japonica</i> , N. E. 1.00 ¼ oz.	2.50		
PINUS aristata	1.35	3.20	8.50
<i>attenuata</i>	1.50	3.75	10.50
<i>banksiana</i>	1.00	2.70	7.50
<i>canariensis</i>		1.75	5.00
<i>caribaea</i>		2.20	6.00
<i>cembra</i> .....		.60	1.50
<i>cembroides edulis</i>		1.30	3.75
<i>contorta</i> , true Shore Pine, Brit. Col.	1.75	4.50	12.25
<i>contorta latifolia</i> (murrayana)	1.75	4.50	12.00
<i>densiflora</i>		1.20	3.25
<i>echinata</i>	2.00	5.20	14.00
<i>flexilis</i>		1.65	4.50
<i>griffithi</i> (excelsa)		1.25	3.50
<i>halepensis</i> .....		.60	1.50
<i>jeffreyi</i>		2.20	6.00
<i>koraiensis</i>		1.20	3.25
<i>lambertiana</i>		1.75	5.00
<i>monticola</i> .....	.85	2.20	6.00
<i>mugo</i> (montana), Lowland seed		1.25	3.50
<i>mugo mughus</i> , Tyrolean Alps, dwarf type. OR.	80	2.25	6.25
<i>mugo pumilio</i> , dwarfest of <i>mugo</i> group from Eastern Alps (limestone). OR.	1.00	2.80	8.00
<i>mugo rostrata</i> (uncinata) European Alps		2.80	8.00
<i>nigra</i> , Hill strain, elev. 900-1,500 ft. from the heart of Austrian Pine country in Austria. OR.		1.20	3.25
Same, elevation 1,500-2,400 ft. OR.		1.25	3.50
<i>nigra</i> , from planted stands in the Haute Loire highlands of France, elevation 3,000 ft.		1.20	3.25
<i>nigra</i> , Northern Europe, from stands near sea level, short-needed type		1.30	3.75
<i>nigra</i> , Central European sources .....		.90	2.50
<i>nigra poiretiana</i> , from Corsican forests		3.40	9.25
<i>palustris</i>		1.20	3.25
<i>parviflora</i> (pentaphylla)		1.40	4.00
<i>patula</i> .....	.50	1.65	4.50
<i>pinaster</i> (maritima) .....		.60	1.25
<i>pinex</i> .....		.60	1.50
<i>ponderosa</i> , British Columbia		1.75	5.00
<i>ponderosa</i> , Colorado		1.65	4.50

PINUS (continued)	oz.	¼ lb.	lb.
ponderosa, Idaho		1.80	5.25
ponderosa scopulorum		1.40	4.00
pumila		2.20	6.00
radiata (insignis)		1.20	3.25
resinosa, Lake States. OR.	1.40	4.00	11.00
rigida, New York State		2.60	7.25
sabiniana .....		.80	2.25
strobis, Lake States. OR.		1.80	5.25
sylvestris, Scotch Pine, for diversity of require- ments a choice of strains is offered. See Page 27. Pine Lore.			
A. Strains from the plains of Northern Europe.			
Seed from Belgium, Campine Strain. OR.		1.85	5.50
Seed from North German Low Plain. OR.		3.50	10.00
B. Mountain Strains.			
Seed from Highland forests in France. OR.		1.85	5.50
Seed from Vosges Mts. France. OR.		5.50	14.75
Seed from Austrian Forests, hill strain. OR. ..		2.20	6.00
Seed from Spain:			
Burgos Province, North Spain, elevation 3,000-4,800 ft. OR.		2.80	8.00
Guadalajara, Central Spain, elevation 4,200-5,100 ft. OR.		3.00	8.25
Guadarrama Mts. North Central Spain, elevation 3,500-4,000 ft. OR.		3.50	10.00
Domestic seed, Northern New York State, elevation 1,200 ft., a strain with good winter color	2.00	5.75	16.00
C. Insular isolation has set apart as distinctive for practical purposes the Scotch Pine races in- digenous to England. Favorable reports re- gard them as suitable both for timber and Christmas tree production.			
Seed from government forests in East Anglia, near sea level, on inquiry. OR.			
Seed of the true Scots Pine of Scotland, eleva- tion 100-650 ft. OR.	2.00	5.00	14.00
taeda		2.50	7.00
thunbergi, domestic, from shore plantings, N. E. ..	1.00	2.75	
thunbergi, Japan		1.25	3.50
torreyana	1.30	3.60	9.00
PITTOSPORUM tobira, clean		1.10	3.00
PLATANUS occidentalis .....		.50	1.25
orientalis, clean .....		.50	1.25
PLUMBAGO capensis	1,000 seeds	4.00	
POINCIANA gilliesi		1.40	4.00
(Delonix) regia		2.20	6.00
PONCIRUS (Citrus) trifoliata			1.50
PRUNUS—See also under Fruit Seeds, Page 20.			
amygdalo-persica, Hardy Almond .....	.70	2.00	
caroliniana .....		.60	1.50
incisa, clean, imported		1.50	4.25
japonica		1.25	3.50
laurocerasus (officinalis), clean .....		.70	2.00

	oz.	¼ lb.	lb.
PRUNUS (Continued)			
maritima, clean, N. E.	1.35	3.75	
mume, clean .....	.50	1.25	
*sargentii (serrulata sachalinensis) clean	1.25	3.50	
serotina, clean .....	.60	1.50	
serrulata, clean .....	.90	2.50	
subhirtella, clean	1.00	2.75	
subhirtella pendula, clean	1.20	3.25	
tomentosa, domestic, clean	1.00		
tomentosa, imported .....	.90	2.50	
yedoensis .....	.90	2.50	
PSEUDOLARIX amabilis (kaempferi)	1.65	4.50	
PSEUDOTSUGA taxifolia caesia, Interior strain, Idaho, Montana, Eastern Washington	2.00	4.65	12.00
taxifolia caesia, Shuswap Lake, British Columbia. OR.	2.00	4.75	12.75
taxifolia caesia, Williams Lake, British Columbia, norther-most source available. OR.	2.10	4.85	13.25
taxifolia glauca, Colorado strain	1.75	4.60	12.50
taxifolia viridis, Washington, Oregon. OR.	2.25	5.00	14.00
taxifolia viridis, Snoqualmie watershed, west slope of Cascade Mts. OR.	2.50	6.40	17.00
PTELEA trifoliata .....	.70	2.00	
PUERARIA thunbergiana .....	.70	2.00	
PYRACANTHA coccinea, clean .....	.90	2.50	
coccinea lalandi, clean	1.20	3.25	
coccinea lalandi, d.b. N. E. hardy strain, plants wintering at Boston	1.75	5.00	
PYRUS—See Fruit Seeds, Page 19			
QUERCUS palustris — not less than 5 lbs. sold .....		.70	
QUERCUS, import items, orders for not less than 10 lbs. accepted prior to December 1st.			
ilex .....		.95	
robur .....		.90	
suber		1.25	
RHAMNUS cathartica, clean .....	.90	2.50	
davurica, clean	2.20	6.00	
frangula, clean	1.35	3.75	
purshiana, clean	1.40	4.00	
RHODODENDRON—Items marked (*) are supplied to us in selfed (hand-pollinated) seeds of northern origin by noted expert. Packets as offered contain several hundred seeds.			
arboreum .....	.75 ¼ oz.		
angustini	1.00 pkt.		
auriculatum	1.00 pkt.		
barbatum	1.00 pkt.		
*callimorphum	1.00 pkt.		
calophytum	1.00 pkt.		
*caloxanthum	1.00 pkt.		
canadense (Rhodora), N. E., 1.00 1/16 oz., .75 pkt.			

RHODODENDRON (continued)

cantabile	1.00 pkt.	
carolinianum, N. E. ....	.75 pkt., 2.00 1/8 oz.	
carolinianum, blush .....	.75 pkt.	
carolinianum, white .....	.75 pkt.	
catawbiense	1.00 1/16 oz., 3.00 1/4 oz.	
catawbiense compactum, N. E.,	.75 pkt., 1.00 1/16 oz.	
caucasicum .....	.75 pkt.	
*chartophyllum	1.00 pkt.	
cinnabarinum	1.00 pkt.	
croceum	1.00 pkt.	
*decorum	1.00 pkt.	
diaprepes	1.00 pkt.	
discolor	1.00 pkt., 1.50 1/32 oz.	
falconeri	1.00 pkt.	
*fargesii	1.00 pkt.	
*ferrugineum .....	.50 pkt., 1.00 1/8 oz.	
*fictolacteam	1.00 pkt.	
fortunei Lu Shan, a hardy strain F 1 generation		
from China seed, hand-pollinated, N. E.	1.25 1/32 oz., 3.00 1/8 oz.	
fortunei, N. E., from trade specimens	1.25 1/32 oz., 3.00 1/8 oz.	
griersonianum	1.00 pkt.	
griffithianum .....	.85 pkt., 2.00 1/8 oz.	
haematodes	1.00 pkt.	
hippophaeoides	1.00 pkt.	
hirsutum .....	.50 pkt., 1.00 1/8 oz.	
hodgsoni	1.00 pkt.	
insigne	1.00 pkt.	
intricatum	1.00 pkt.	
keysi	1.00 pkt.	
litiense	1.00 pkt.	
macabeanum	1.00 pkt.	
maximum, N. E.	1.00 1/4 oz.	3.50
metternichii	1.00 pkt.	
*neriifolium, from choice English selection	2.00 1/32 oz., 1.00 pkt.	
orbiculare	1.00 pkt.	
ponticum, Northern Europe	1.25 1/4 oz.	
ponticum, seed from hardy selections, N. E., with		
their airy grace and daintiness of bloom, true		
ponticum plants have a charm all their own.	1.00 1/32 oz.	
praevenum, N. E.	1.00 pkt.	
puralbum	1.00 pkt.	
racemosum	1.00 pkt.	
rex	2.00 1/16 oz., 1.00 pkt.	
smirnowi	1.00 pkt.	
*souliei	1.00 pkt.	
*sutchuenense	1.00 pkt.	
*thomsoni	1.00 pkt.	

	oz.	1/4 lb.	lb.
RHODODENDRON (continued)			
* <i>vernicosum</i>	1.00	pkt.	
* <i>wardi</i>	1.00	pkt.	
* <i>yunnanense</i>	1.00	pkt.	
RHODODENDRON HYBRIDS: See listing on pages 24-26			
RHODOTYPOS scandens (kerrioides)	1.40		4.00
RHUS canadensis (aromatica), clean	1.25		3.50
<i>coppalina</i> , clean	1.10		3.00
<i>cotinus</i> , see <i>Cotinus coggygia</i>			
<i>glabra</i> , clean	1.00		2.75
<i>trilobata</i> , clean	1.25		3.50
ROBINIA hispida fertilis	1.30		3.60 10.00
<i>pseudoacacia</i> , imported seed (the Eastern U. S. strain) .....	.50		1.25
<i>pseudoacacia</i> , domestic seed, Idaho strain .....	.70		2.00
ROSA blanda	1.65		4.50
<i>canina</i> , clean .....	.50		1.10
<i>carolina</i> (<i>humilis</i>) d.h.	1.25		3.50
<i>eglanteria</i> (<i>rubiginosa</i>), clean	1.10		3.00
<i>multiflora</i> , thornless, clean	1.00		3.00
<i>multiflora</i> , thorny, clean .....	.90		2.50
<i>primula</i> , d.h.	1.00		2.75
<i>rubrifolia</i> , clean	1.40		4.00
<i>rugosa</i> , clean	1.20		3.25
<i>rugosa</i> , deep red selection, N. E., clean	2.00		
<i>rugosa</i> , white, clean	1.50		4.25
<i>setigera</i> , clean	2.20		6.00
<i>spinosissima</i> , d.h. clean	1.35		3.75
<i>virginiana</i> (<i>lucida</i>), clean	2.20		6.00
<i>wichuraiana</i> , clean	1.00		2.75
<i>xanthina spontanea</i> , d.h.	1.00		
RUSCUS aculeatus , clean	1.10		3.00
SAPINDUS drummondi .....	.90		2.50
<i>mukorossi</i>	1.00		2.75
SASSAFRAS albidum (<i>varifolium</i>)	1.10		2.75
SCHINUS molle .....	.70		2.00
<i>terebinthifolius</i> .....	.90		2.50
SCHIZOLOBIUM parahybum (<i>excelsum</i>), tall (to 100 ft.), fast growing, tropical timber and ornamental tree, large fernlike foliage, masses of flowers in large golden sprays	1.75	4.50	12.00
SCIADOPITYS verticillata	2.40		6.75
SEQUOIA gigantea , from high elevations, 5,500-7,000 ft.	2.50	7.00	20.00
<i>sempervirens</i> , California seed only	1.75	4.50	12.00
SHEPHERDIA argentea , clean	2.70		7.50
SOPHORA japonica .....	.60		1.40
<i>japonica</i> , seed from pendula form .....	.65		1.75
<i>secundiflora</i>	1.85		5.50
SORBUS americana , d.b.	1.20		3.25
<i>aria</i> , clean	2.20		6.00
<i>aucuparia</i> , imported, clean .....	.85	2.35	6.50

		oz.	¼ lb.	lb.
SORBUS (continued)				
aucuparia, domestic, d.b., N. E.			1.10	2.75
domestica, clean	1.25		3.50	10.00
intermedia (scandica) .....	.90		2.50	
torminalis, clean .....	.85		2.35	6.50
SPARTIUM junceum .....			.60	1.50
STEWARTIA monadelphæ, N. E.	1.20	¼ oz.	3.00	
koreana, N. E.	1.20	¼ oz.	3.00	
STYRAX japonica			1.10	3.00
obassia			1.40	4.00
SYMPHORICARPUS albus (racemosus)	1.00		2.75	7.50
orbiculatus (vulgaris), d.b. ....			.90	2.50
SYMPLOCOS paniculata, conspicuous in flower (white) and fruit (bright blue)			1.35	3.75
SYRINGA amurensis japonica, domestic seed, N. E.	1.70		4.75	
amurensis japonica, imported			4.50	12.00
henryi (villosa x josikaea)	1.75		4.50	
josikaea	2.00		5.50	15.00
pekinensis, N. E.	2.25		6.00	
villosa	1.75		4.50	12.00
vulgaris			1.10	3.00
TAMARINDUS indica			1.85	5.50
TAMARIX gallica .....			.70	2.00
TAXODIUM distichum .....			.60	1.50
distichum, clean .....			.90	2.50
mucronatum			2.20	6.00
TAXUS baccata .....			.90	2.50
baccata erecta, N. E.	1.20		3.25	
baccata stricta (fastigata)			1.40	4.00
cuspidata, seed from spreading forms, N. E.	1.00		2.80	8.00
cuspidata, seed from Japan (the so-called capitata form)			1.20	3.25
media hicksi, N. E.	1.00		2.70	7.50
THEA (Camellia) sinensis .....			.60	1.50
THUJA occidentalis	1.00		2.50	7.00
occidentalis, Northeastern or Lake States	1.15		3.00	8.50
occidentalis pyramidalis, from own specimens	2.00		5.00	15.00
orientalis .....			.65	1.75
orientalis, New England seed			1.25	3.50
orientalis, from select pyramids, N. E.			1.85	5.50
orientalis aurea			1.00	3.00
orientalis aurea nana N. E.	1.50			
orientalis compacta (nana)			1.00	2.75
orientalis elegantissima			1.20	3.25
orientalis pyramidalis .....			.80	2.25
plicata	1.75		4.50	12.00
THILIA americana, .....			.60	1.50
cordata .....			.65	1.65
platyphyllos .....			.50	1.25
tomentosa .....			.50	1.25
TORREYA californica			1.25	3.50
TRACHYCARPUS excelsus (fortunei) .....			.60	1.50

	oz.	¼ lb.	lb.
TSUGA canadensis , Northern crop. OR.	2.50	6.70	18.00
<i>caroliniana</i> , N. E.	2.50	6.75	18.50
<i>heterophylla</i>	2.75	7.50	21.00
<i>mertensiana</i>	2.80	8.00	22.50
ULEX europaeus ....		.90	2.50
<i>europaeus nanus</i>		1.10	3.00
ULMUS americana			1.50
<i>glabra</i> (montana), Scotch Elm ....		.90	2.50
<i>procera</i> (campestris), English Elm ....		.90	2.50
<i>pumila</i> ....		.90	2.50
<i>pumila</i> , wings removed		1.50	4.25
UMBELLULARIA californica		1.10	3.00
VACCINIUM corymbosum , d.b.	1.10	3.00	
<i>corymbosum</i> , d.b., from large fruited cultivated varieties	1.00	2.50	
VIBURNUM acerifolium , d.b.		1.10	3.00
<i>burkwoodi</i> , clean	2.80	8.00	22.00
<i>carlesi</i> , clean, N. E.	2.35	6.70	18.00
<i>carlesi</i> forms, intermediate between <i>carlesi</i> and <i>bitchiuiensis</i> , d.b.	2.00	5.75	
<i>cassinoides</i> , d.b.		1.25	3.50
<i>dentatum</i> , d.b. ....		.70	2.00
<i>dentatum</i> , clean		1.40	4.00
<i>dilatatum</i> , clean		1.35	3.75
<i>lantana</i> , clean ....		.80	2.25
<i>lentago</i> , clean		1.35	3.75
<i>opulus</i> , clean		1.00	2.75
<i>prunifolium</i> , clean		1.50	4.25
<i>rhytidophyllum</i> , d.b.		1.50	4.25
<i>sargentii</i> , clean		1.25	3.50
<i>setigerum</i> (theiferum) <i>aurantiacum</i> , d.b., N. E. with conspicuous orange-red fruit	1.25	3.50	
<i>sieboldi</i> , domestic, d.b.		1.10	3.00
<i>tinus</i> , clean ....		.90	2.50
<i>trilobum</i> (americanum)		1.85	5.50
<i>wrightii</i> , clean imported		1.65	4.50
<i>wrightii</i> , from grafted specimens, N. E., clean	1.00	2.70	7.50
VITEX agnus-castus ....		.70	2.00
VITIS riparia (odorata) the true, hardy Riverbank Grape, with fragrant flowers and sweet, very early ripening fruit, clean		2.00	
WASHINGTONIA filifera ....		.90	2.50
<i>robusta</i>		1.00	2.75
WEIGELA , garden varieties	1.00		
WISTERIA floribunda , (multijuga) blue		1.10	3.00
<i>frutescens</i>		1.25	3.50
<i>sinensis</i> , blue ....		.80	2.25
<i>sinensis</i> , white		1.20	3.25

		¼ lb.	lb.
YUCCA baccata	1.75	4.00	
brevifolia	1.50	3.75	
glauca	1.75	4.50	12.00
mohavensis	1.35	3.50	
whipplei (Hesperoyucca wh.)	1.35	3.50	
ZELKOVA serrata		1.35	3.50

FRUIT STOCKS

APPLE, Common for stock		
Domestic seed from orchard varieties .....	.80	2.25
French Seed, Cidar Crab, a hybrid race between the common Apple, M. pumila, and the wild Apple, M. sylvestris, from a climate with cool, rainy summers and mild winters .....	.70	2.10
Seed from East Central Europe, from a climate with dry, warm summers and cold winters ....	.90	2.50
APRICOT, Common Prunus armeniaca .....		.90
Ansu variety .....	.50	1.25
CHERRY, Mahaleb, Prunus mahaleb, Eastern Europe	.75	2.10
Western Europe .....	.65	1.75
MAZZARD, Prunus avium .....	.50	1.25
Wild Mazzard, Prunus avium sylvestris, gum flux resistant silver bark strain from wild trees ....	.70	1.85
PEAR, Austrian Wild Pear	1.40	4.00
Common, domestic (Bartlett)	1.30	3.75
French seed	2.20	6.00
Sand, Pyrus pyrifolia (serotina)	2.60	7.25
PLUM, American, Prunus americana .....	.50	1.25
Beach, Prunus maritima, N. E.	1.35	3.75
Myrobolan, Prunus cerasifera .....	.50	1.25
Myrobolan, seed from Bulgaria, a northern strain ..	.60	1.50
QUINCE, Common, Cydonia oblonga (vulgaris)	1.85	5.50

SEED SPECIALTIES

	oz.	1/4 lb.	lb.
ACANTHUS mollis .....	.65	1.30	3.75
ASPARAGUS plumosus nanus	1.25	3.50	10.00
plumosus robustus	1.10	3.45	9.50
sprengeri	1.00	2.70	7.50
CHRYSANTHEMUM, true fall flowering Chrys.			
Early flowering, double, mixed	1.40 1/4 oz.	4.00	
Korean Hybrids .....	.50 pkt., 1.25 1/8 oz.		
CONVALLARIA majalis	1.25		
DELPHINIUM Gold Medal High Quality Improved Strain. American grown from Pacific Giant seed primarily .....	.50 1/16 oz., 1.25 1/4 oz.		
DICENTRA eximia	1.00 1/4 oz.	2.50	
HELLEBORUS niger	1.25	3.50	10.00
HIBISCUS moschentos (palustris) N. E., true, native Rose-Mallow, pink and rose .....	.50	1.50	4.50
LAVANDULA vera (true Lavender) .....	.55 1/4 oz.	1.50	4.50
LUPINUS polyphyllus in separate shades of Blue, Carmine Red, Rose, Salmon, White, Yellow or mixed .....		.90	2.50
Russell Hybrids, from self sown, naturalized N. E. plants	1.00	3.00	
MIMOSA pudica	1.00	3.00	
PAEONIA officinalis .....	.55	1.50	
peregrina .....	.55	1.50	
PRIMULA auricula .....	.65 1/8 oz.		
japonica .....	.60 1/16 oz.		
veris, Blue Shades .....	.85 1/8 oz.		
Giant Munstead, light shades .....	.65 1/8 oz.		
Large flowered, Border Mixture .....	.65 1/8 oz.		
Gold Laced .....	.50 1/8 oz.		
Golden Yellow .....	.50 1/8 oz.		
Lutea, bright Yellow .....	.50 1/8 oz.		
Ruby Red .....	.50 1/8 oz.		
White .....	.50 1/8 oz.		
Teicher's Colossal strain, giant flowered, wide range of colors .....	.75 1/8 oz.		
THERMOPSIS caroliniana .....	.60 1/4 oz.	1.25	3.75
GARDEN ASPARAGUS—Waltham Washington, 20 years of breeding and selection by Mass., Waltham Field Station produced a strain of superior stooling capacity and short top growth, resulting in 25% increased production over old strains		1.75	5.00

AZALEA VARIETIES of HYBRID ORIGIN

If exclusively taken from this section please have your order amount to at least \$3.00. Packets as offered contain several hundred seeds.

AZALEA—Deciduous:

***Altaclarensis** (mollis x viscosa) orange yellow,
blotched75 pkt., 2.00 1/16 oz.

***Embley Strain**, a parallel development of the Ex-
bury strain—all colors, shades of yellow,
pink, red 1.50 pkt., 2.50 1/32 oz.

***Embley Apricot**, apricot pink
1.50 pkt., 2.50 1/32 oz.

Ghent Hybrids, from progeny of Bijou des
Amateurs, red and yellow shades
1.00 pkt., 1.25 1/32 oz.

Ghent Hybrids, all colors 1.25 1/16 oz., 3.75 1/4 oz.

***Exbury strain**, choice race, a separate development
of Knaphill strain, hand pollinated, all colors
1.50 pkt., 2.50 1/32 oz.

Basilisk, creamy yellow, darker blotch 1.50 pkt.

Brazil, red 2.00 pkt.

***Knaphill strain**, result of prolonged breeding inter-
crossing mollis, pontica (ghent), calendulacea
and occidentalis strains
1.50 pkt., 2.50 1/32 oz., 7.50 1/8 oz.

Mollis varieties (mollis x japonica), from choice
collection 1.25 1/16 oz., 3.00 1/4 oz.

Named varieties—All—
1.00 pkt., 1.25 1/32 oz., 3.50 1/8 oz.

***Koster's Brilliant Red**, glossy orange red

***Lemonora**, apricot, center rose

Louisa Hunnewell, seed from seedlings

Louisa Hunnewell x japonica aurea, large
flowered yellow

***Mrs. Oliver Slocock**, rich orange-yellow suffused
terra-cotta

***Robespierre**, orange-red

Rosea x calendulacea 1.00 pkt., 1.50 1/16 oz.

Rosea x Louisa Hunnewell 1.00 pkt.

Viscosepala (viscosa x mollis) 1.00 pkt.

Items marked * usually not available before
February-March.

AZALEA—Evergreen (New England grown):

Glenn Dale varieties 1.00 pkt., 2.00 1/32 oz.

Hinodegiri 1.00 1/32 oz.

**Hinodegiri x mucronata (ledifolia), vigorous free
blooming Hybrids75 pkt., 1.50 1/32 oz.**

**Indica (macrantha), late flowering new varieties
of great beauty, pink and rose shades
1.00 pkt., 2.00 1/32 oz.**

**Maxwelli x scabra, large flowered bright vermilion,
from selfed specimen plant 2.00 pkt.**

**Mucronata (ledifolia), large flowered varieties
1.00 pkt.**

**Obtusa arnoldiana (obt. amoena x obt. kaempferi)
Cardinalis, deep red .. 1.00 pkt., 2.00 1/32 oz.
Pink and Rose shades .. .75 pkt., 1.50 1/32 oz.**

**Obtusa, early Hybrids, blooming with Azalea
Flame, two shades of red. 1.00 pkt.**

**Obtusa kaempferi, varieties of kaempferi x mal-
vatica and kaempferi x hinodegiri parentage,
hardy and free blooming race in shades of
pink and rose, light purple, red and mixed
each 1.00 pkt., 1.25 1/32 oz., 3.50 1/8 oz.
Also White 1.00 pkt.**

Obtusa kurume, from named varieties 1.00 pkt.

**Sanderi, strain offered is of apparent obtusa
kaempferi x indica (macrantha) parentage,
very free blooming, resembling and succeed-
ing the "Malvatica" strain.**

**Rose and Salmon shades
1.00 pkt., 1.50 1/32 oz.**

Scarlet 1.25 pkt.

RHODODENDRON VARIETIES of HYBRID ORIGIN

All packet lots offered contain several hundred seeds.

A. AMERICAN (NEW ENGLAND GROWN:

Atrosanguineum selection x Mars 1.50 pkt.

Boule De Neige, white 1.00 pkt., 1.50 1/32 oz.

Britannia x Fortunei, from a group of selected plants, habit medium, fairly compact, colors, pink and rose shades 1.00 pkt., 2.75 1/8 oz.

Catawbiense varieties

Seed from album elegans selections, tall and fast growing, quite true from seeds in shades of white and blush .. 1.00 1/32 oz., 3.00 1/8 oz.

Seed from "America" red flowered clonal form 1.00 pkt., 1.50 1/32 oz.

'America' hand pollinated with fortunei
1.00 pkt., 2.50 1/32 oz.

Pink and rose shades 1.00 1/16 oz., 3.00 1/4 oz.

Seed from red flowered plants
1.25 1/16 oz., 3.75 1/4 oz.

Mixed seeds 1.00 1/16 oz., 2.75 1/4 oz.

Catawbiense x Maximum (Wellesleyanum)
1.25 1/16 oz.

Decorum x Mrs. Chas. S. Sargent 1.00 pkt.

Degronianum x Praevernum, hand pollinated
1.25 pkt.

Discolor Hybrids 1.00 pkt.

Discolor x Griesonianum 1.00 pkt.

Discolor x Haematodes 1.00 pkt.

Farquahar's pink and red hybrids, an old Cape Cod strain which has proved itself hardy as far North as Vermont, these are presumably hybrids of fortunei, clear pink colors and red, no white. 1.50 pkt., 2.50 1/32 oz.

Fortunei x Haematodes, F 1 generation from Dexter plants 1.50 pkt.

Fortunei x Hardy varieties, free blooming selections, low compact habit 1.00 pkt.

Fortunei x Hardy varieties, tall rose flowered selection of extreme hardiness, being pollen sterile. Seed produced is the result of hand pollination with red flowered hybrids.

1.00 pkt., 2.50 1/32 oz.

Fortunei x Hardy varieties, all types
1.00 pkt., 2.00 1/32 oz.

New Fortunei Variants—This strain culminates many years of effort by a Cape Cod Breeder towards creation of Red Flowered Hybrids. Many crosses with hardy red Hybrids, haematodes and griersonianum as species and in hybrid combinations are involved.

2.00 pkt., 3.00 1/32 oz.

Haematodes x Pygmalion 1.50 pkt.

Loder's White F 2 1.00 pkt.

Maximum x Arboreum, from choice free blooming selection 1.00 pkt., 2.00 1/32 oz.

Smirnowi x Hardy varieties 1.00 pkt.

Virgin (farg. hyb. x cataw. album)

1.00 pkt., 1.25 1/32 oz., 3.75 1/8 oz.

- B. Selection of Popular Varieties** as grown by English nurserymen. All are time tested and valued for their hardiness, good foliage, full flower trusses, ability to stand exposure:

Varieties each 1.00 pkt., 1.25 1/32 oz., 3.75 1/8 oz.

Alice, rose pink

Ascot Brilliant, deep crimson

Bagshot Ruby, blood-crimson

Betty Wormald, rose-pink, purple blotch

Britannia, bright crimson red

Corona, coral pink

Doncaster, scarlet crimson

Earl of Athlone, bright blood-red

Goldsworth Pink, pink

Iveryanum, scarlet

Jersey Cream, creamy yellow

J. J. DeVink, glowing crimson

Lady Clementine Mitford, peach pink, deeper margin

Lady Primrose, lemon yellow, red spots

Loder's White, pale mauve passing to pure white, large trusses

Madame De Bruin, cerise red

Meg Merillies, creamy white, shaded yellow and apricot

Mother of Pearl, blush turning snow-white

Mrs. A. R. Bide, deep pink, with brown-crimson ray

Pink Pearl, rose-pink

Queen Wilhelmina, large luminous cerise red

Rose Perfection, deep rose shaded glowing crimson

White Queen, pure white

Williamsianum Hybrids

Yellow Loderi, yellow

Blend of all varieties 2.00 1/16 oz., 6.00 1/4 oz.

- C. RHODODENDRON VARIETIES** as listed in *Rhododendron Stud Book* of the Royal Horticultural Society. Most all of recent origin, some classical hybrids of long standing. Seedling material of outstanding vigor and brightness may be expected from all of these.

Unless priced otherwise—Packets 1.00 each, 1.50 1/32 oz.

Albatross (Loderi x discolor), tall growing, large leaved, large trusses, white to shell pink.

Aurora (Kewense x thomsoni)
Azor (gries. x discolor), soft salmon pink trumpet
Bowbells (Corona x williamsonianum)
Cornish Cross (thoms. x griff.), superb foliage, large crimson trusses
Cupid (griff. x Luscombei)
Fireball (barbatum x Ascot Brilliant), bright red
Fireglow (fort. hybr. x griers.), scarlet
Firetail (Britan. x eriog.), fine red shade
Goldsworth Yellow (caucas. x campyl.), apricot changing to yellow
Kewense (griffithianum x fortunei)
Lady Bessborough (disc. x campyl. elatum), vigorous shrub, creamy yellow-orange, pink-maroon blotch
Lodaauric (Loderi x auricul.), large grower, huge trumpets, white, fragrant, late.
Loderi (griff. x fort.)
 Variant King George, pink buds opening white
 Variant Venus, white, flushed pink
 Variant Pink Diamond, clear blush
Luscombei (fort. x thoms.), large pink, excellent foliage
Mrs. Kingsmill (Penjerrik, A. M. var.) (campyl. el. x griff.) yellow
Pink Shell (griff. x H. M. Ardene), rose-pink
Polar Bear, (diaprepes x auric.) magnificent late flowering giant, large white trusses
Queen o' the May (Pink Bell x grier), excellent white
Rosabel (Pink Shell x grier.), large pale pink, darker veins
Shilsoni (thoms. x barb.), deep crimson red
Snow Queen (griff. x maximum x Loderi), pure white
Souldis, (souliei x disc.), large trusses, white bell shaped flowers
Susan (campanul. x fortunei), white, creamy yellow or pink
Tally Ho (griers. x eriogynum), bright vermilion
Blend of Stud Book varieties **2.50 1/16 oz., 7.50 1/4 oz.**
 Seeds of B & C items usually not available before
 February - March.

SEEDLING GROWERS' REFERENCE

	Ounces			Thousands
Austrian Pine	6.4	see	Pinus nigra	26
Red Pine	3.2	see	Pinus resinosa	52
Scotch Pine	4.4	see	Pinus sylvestris	78
White Pine	6	see	Pinus strobus	27
Black Hills Spruce	3	see	Picea glauca densata	188
Blue Spruce	4	see	Picea pungens glauca	106
Norway Spruce	4.4	see	Picea abies	64
White Spruce	2.5	see	Picea glauca	240
Douglas Fir, Blue	6	see	Pseudotsuga taxifolia glauca	42
Douglas Fir, Gray	6	see	Pseudotsuga taxifolia caesia	42
Hemlock	3	see	Tsuga	187
Larch—European	8	see	Larix—decidua	77
Japanese	4	see	leptolepis	118
Red Cedar	4	see	Juniperus virginiana	43

Figures as given represent average seed counts per pound and approximate amounts in ounces required per 48 square feet of seed bed when broadcast.

PINE LORE

With many growers confused as to what strains of Scotch Pine to plant we feel competent giving the following suggestions:

Practically all strains are, for some condition or other, suitable both for forest planting, i.e., timber production and for use as ornamentals or Christmas trees.

In general two major races of Scotch Pine concern us here:

Strains from Northern Europe growing on the sandy plains which stretch from the coast of Belgium and Holland all the way east to, and around, the shores of the Baltic Sea. They are considered good strains for reforestation, grow comparatively fast, but usually have the objectionable feature of foliage discoloration with the approach of cold weather. They all do best on deep, sandy soils. If planted on better soils plants have a tendency to "overeat", grow too fast and are prone to fall prey to disease and insect infestations. As an exception as to winter color the Pine strain of the North German low plain warrants attention.

The **Mountain Strains** from various origins in Europe usually growing on stony soils are better adapted for all around planting. It is from these strains that best results can be expected for use as Christmas tree. Grown on sandy soils plants from these strains may require feeding to show best foliage color.

SCOTCH PINE—Seed from Highland Forest in Southern France (formerly offered as green strain—Western Europe, elevation 2,700-3,600 feet has been the preferred choice of Christmas Tree growers for many years. It keeps its color well, is short needled, fairly fast growing and of bushy habit, much used for wind-breaks, shelter planting, landscaping; 86,000 seed per pound.** This strain is known under several names: Auvergne, French Blue, Haute Loire, Noble Race. Germination tests covering many years seem to indicate a natural average germinative capacity between 70 and 75% for this strain.

SCOTCH PINE—Vosges Mountains of North Eastern France. With supplies of certified origin being available from a closely defined forest area under extensive management we wish to offer this strain for trial. A hill strain from elevations 800-1,000 ft., growing on sandstone (silica) formations, receiving an annual precipitation of about 32 inches. A valuable feature, conducive to nursery handling, is the lateral development of its root system with no tap root to speak of. The tree is rather fast growing with straight stems and winter green foliage.

SCOTCH PINE—Seed from Spanish mountain sources. Because of good foliage color and excellent seed grade available, Christmas tree growers will want to try for their merits the three strains as offered on page 14.

SCOTCH PINE—Seed from Austrian Forests, a hill strain, elevation 1,400 feet, green needles, straight stems, small crowns, 78,500 seeds per pound. This strain ranks second in choice for Christmas tree production.

**Seed counts as given here are approximate, weather conditions causing variations from year to year.

SCOTCH PINE—Belgian Campine—We are again offering this lowland strain because of its excellent qualities as a forest tree. It is fast growing with straight stems, attaining largest average height and bole increment in comparison to other strains of Central Europe. While the foliage remains green in winter it is not favorably regarded by Christmas tree growers because of its long needles. Some, however report that it responds well to shearing and like it for that reason. The tree does well on sand.

SCOTCH PINE—Seed from North German Low Plain. This strain has lately come to the attention of Christmas tree growers for its ability to do well on sand. Trees about twenty years old, on our own land, have shown only the slightest of foliage discoloration during the cold months in comparison to definite yellowing of Riga strain (Latvia) trees. Color, somewhat more intense than with the latter, is a bright-bluish green. Needles are from $2\frac{1}{2}$ -3 inches long, a trifle wider and heavier in texture than those of the 2- $2\frac{1}{4}$ inches long of the Riga strain. Seasonable increase is moderate, little in excess of Riga strain trees. We will supply certified seed from selected stands, collected under supervision of state foresters.

SCOTCH PINE—The West Baltic Strain from the East Coast of Sweden is somewhat different from the East Baltic or Riga strains which it surpasses in rate of annual increase. This is possibly the best strain for timber and planting in the North. 90,000 seeds per pound. Seedlings are unusually resistant to adverse conditions. Supplied on request only.

PINUS MUGO (MONTANA)—Which is much planted on mountain slopes and steep banks to stop erosion, rock and snow slides, is of equal value for stopping wind erosion on dune lands in coastal districts. Closely planted it will form, in time, impenetrable thickets, a barrier to wind-blown sand, a refuge for wild life.

PINUS MUGO PUMILO — Shrubby Swiss Pine as indicated by its form name Pumilio i.e. Dwarf, is the smallest of the Mountain Pines. Seed, certified as to origin, comes, we are assured, from pure stands at high altitude, 4,300 - 4,800 feet, without presence of trees of the Tree Swiss Pine (rostrata) to influence the dwarf habit by cross-pollination.

PSEUDOTSUGA TAXIFOLIA (douglasi) CAESIA—The Gray Douglas Fir is considered to be a form intermediate between the green Pacific Coast and the blue Rocky Mountain varieties which it surpasses in rate of seasonal increase. As an ornamental it is preferred to the Rocky Mountain type in sections where trees of the latter are affected with premature dying of lower branches. It is much used as a Christmas tree either cut from the wild or nursery grown. Originating in interior sections with drought conditions in summer and severe cold weather in winter it is entirely hardy in the north, reported thriving in cultivation in Finland. We take pride in the fact of having been the first seed-house in the states to list and describe this tree a good many years ago.

DORMANCY IN SEEDS OF PINE, SPRUCE, OTHER CONIFERS—Failure to germinate promptly certain conifer seeds is often due to the fact that no consideration had been given to dormancy factors. Seeds most usually concerned are:—White Spruce, White Pine, other Pines of the Cembra, *Flexilis* and *Strobus* groups.

In Fir (*Abies*), Hemlock (*Tsuga*), Douglas Fir (*Pseudotsuga*), Larch (*Larix*), Sitka Spruce dormancy occurrence is variable with dormancy found in some lots and none in others.

In Blue Spruce (*Picea pungens*) fifty percent of seed are dormant, the other half fast germinating.

Late spring planting of all of the before mentioned is apt to result in total failure or partial germination only. Fall planting of some, early spring planting for others or pre-treatment (stratification) of seed lots will be required for best results. Growers are requested:—

- A. To consult reference books for these problems.
- B. For earliest spring planting to prepare their beds in the fall, not to touch bed surface at sowing time but to dress with dry peatmoss, sow and cover with peatmoss and shades. Boarding-in of beds will facilitate this procedure.

RODENT REPELLENT — Seed destruction by foraging rodents and birds may be prevented by dusting seeds with Redlead powder. Seeds are being soaked over-night, superficially drained and the Redlead mixed in until all seeds are coated. A little goes a long way.

DAMPING OFF — Soil and seed treatment with commercially available weed-killers and fungicides is recommended. Bed preparation with humus materials and sand to insure a porous, moisture and air retaining surface is essential. Proper covering of seed will help much to alleviate damping-off conditions. It is advisable to cover seeds with a layer of dry soil, (just enough to cover seeds) taken from the walk between beds and applied with a sweeping motion from a, preferably rimless, square shovel. Over this a layer of sand, about $\frac{1}{4}$ inch thick, is applied. The light colored sand surface will reflect heat rays, act as a mulch and moisture retainer, prevent germination of weed seeds to a great extent.

BOOKS

General information as to how and when to plant, as often requested, cannot be given in letter form.

Purchase of suitable books along these lines, we believe, is the best initial investment a beginner can make toward success in his endeavor.

Books No. 11, 12, 13 and 15 can be especially recommended.

1. **THE AZALEA BOOK** By FREDERIC P. LEE
A complete authoritative handbook of Azalea culture—including tested methods of selection, planting, and cultivation—azalea history—extensive descriptive lists of species and hybrid groups, of both deciduous and evergreens—recommended varieties for gardens. Fully illustrated in color and black and white . . . \$8.95
Books by Alfred C. Hottes—General information, propagation included, about Trees, Shrubs and Perennials.
2. **THE BOOK OF TREES**—448 pages—200 illustrations . . . \$4.00
3. **BOOK OF SHRUBS**—448 pages — 191 illustrations . . . \$4.00
4. **BOOK OF PERENNIALS**—280 pages—103 illustrations . . . \$2.75
5. **CULTIVATED CONIFERS IN NORTH AMERICA** By DR. L. H. BAILEY
404 pages full page photos, 114 line drawings. Approximately 1,000 conifers (species and varieties together) propagation, care, diseases, protection . . . \$13.50
6. **FLORIST CROP PRODUCTION AND MARKETING** By KENNETH POST, PhD.
The application of scientific facts to the production and marketing of florist cut-flowers, potted plants and bulbs grown in the greenhouse or in the field. 906 pages, profusely illustrated \$10.00
7. **HANDBOOK OF THE TREES OF THE NORTHERN STATES AND CANADA** By ROMEYN B. HOUGH
417 pages, 498 photographs showing trunk, leaves, twigs and fruits of each tree . . . \$7.50
8. **HARDY RHODODENDRONS** By FREDERICK STREET
This delightful book written by an English nurseryman along practical lines traces the development of cultural varieties, gives all the information required for their successful culture from planting to propagating. . . . \$3.75
9. **HORTUS SECOND** By L. H. and ETHEL ZOE BAILEY
A concise dictionary of Gardening and General Horticulture. Apart from general information invaluable as a plant directory alone . . . \$13.50
10. **MANUAL OF CULTIVATED TREES AND SHRUBS** By ALFRED REHDER
The best reference book available giving detailed description of every hardy tree and shrub in cultivation. 966 pages. . . \$13.00

BOOKS

11. CHRISTMAS TREES for PLEASURE and PROFIT

By CHAPMAN and WRAY

Starting and maintaining a Christmas tree farm as a hobby or business venture. Suitable land, species to plant, care of stock, laying our plantation, harvesting and marketing. 215 p., illus. **\$3.75**

12. PLANT PROPAGATION PRACTICES, by James S. Wells, gives

a wealth of information on water, heat, light requirements, shading, methods of handling seeds and cuttings. Directions for grafting, layering and division, control of pests and diseases and preparation of propagated material for field planting. Detailed procedures for a select group of plants. 334 p., illus. (1955). **\$7.50**

13. SEEDING AND PLANTING IN THE PRACTICE OF FORESTRY

By J. W. TOUMEY and C. F. KORSTIAN

A Manual for the guidance of forestry students, foresters, nurserymen, forest owners and farmers. 520 pages, illustrated. The best book on the subject **\$8.00**

14. STANDARDIZED PLANT NAMES

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